Ippagunta *et al*.

Supplementary Figure Legends

Supplementary Figure 1. Ovalbumin-induced proliferation of Nlrp3$^{-/}$ and caspase-1$^{-/-}$ lymph node cells is normal. Popliteal lymph node cells were isolated from immunized mice as described in Materials and Methods. Cultures (5x10^6 cells/well) were then stimulated with the indicated amounts of ovalbumin for 72 hours before cell proliferation was measured by ^{3}H-thymidine incorporation as described in Materials and methods. All data represent the mean ± SEM of triplicates and are representative of three independent experiments.

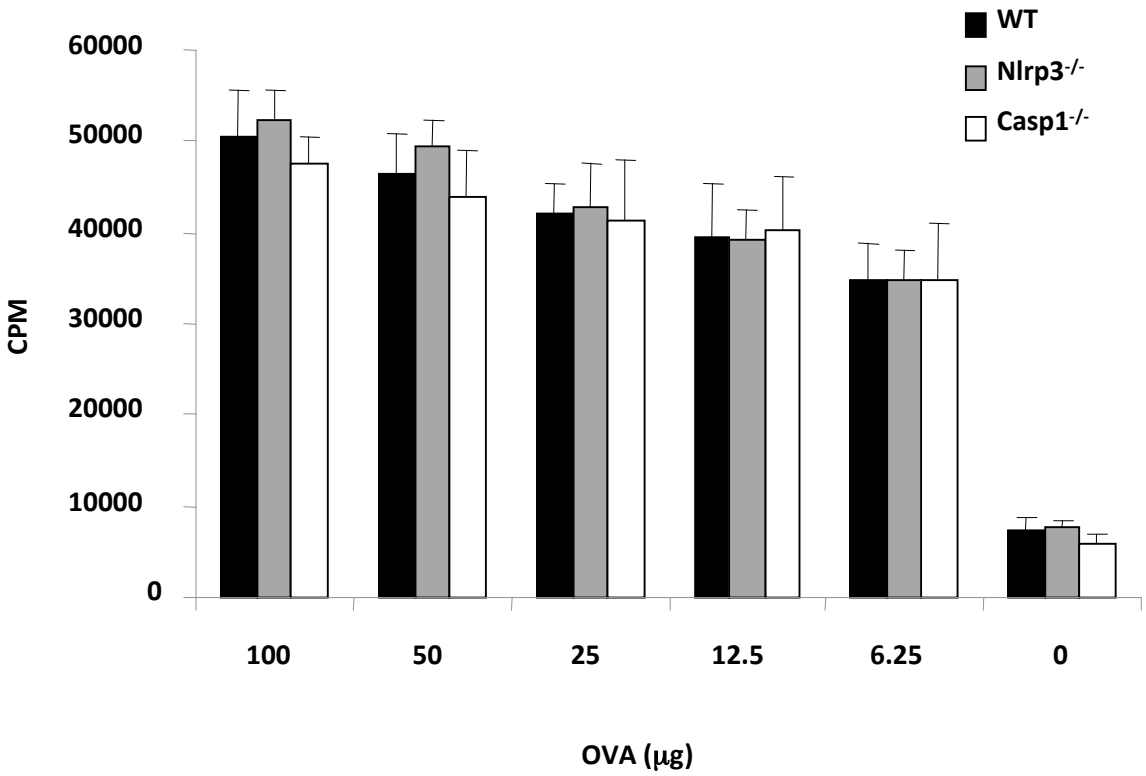
Supplementary Figure 2. Defective antibody and T_H2-associated cytokine production in ASC$^{-/-}$ mice immunized with OVA in alum. (**A**) OVA-specific IgG1 levels in serum of WT and ASC$^{-/-}$ mice sensitized with OVA. Mice (n=5/group) were sensitized with alum-OVA mixture and serum samples were collected as described in Materials and Methods. (**B**) IL-5 production in lung tissue of WT and ASC$^{-/-}$ mice induced by OVA challenge. Mice (n=5/group) were sensitized with alum-OVA mixture as described in Materials and Methods. Whole lungs from WT and ASC$^{-/-}$ mice were collected 8 h after OVA challenge. Results are shown as mean ± SD (n= 5 per group).

Supplementary Figure 3. Antigen-independent T cell receptor ligation triggers potent proliferation of ASC$^{-/-}$ T cells. CD4$^+$ and CD8$^+$ T cells (5 x 10^6 cells/well) purified from splenocytes of wild type (WT) and ASC$^{-/-}$ mice were stimulated with anti-CD3 (20 ng/ml) and anti-CD28 (1 μg/ml) antibodies for 72 hours to induce antigen-independent activation of the T cell receptor. Proliferation of CD3/CD28-specific T cells was analyzed by CFSE labelling. Data represent the mean ± SEM of triplicates and are representative of three independent experiments.

Supplementary Figure 4. Expression of LPS-induced cell activation markers is normal in ASC$^{-/-}$ dendritic cells. Wild type (WT) and ASC deficient BMDCs were incubated with PBS or LPS (1μg/ml)

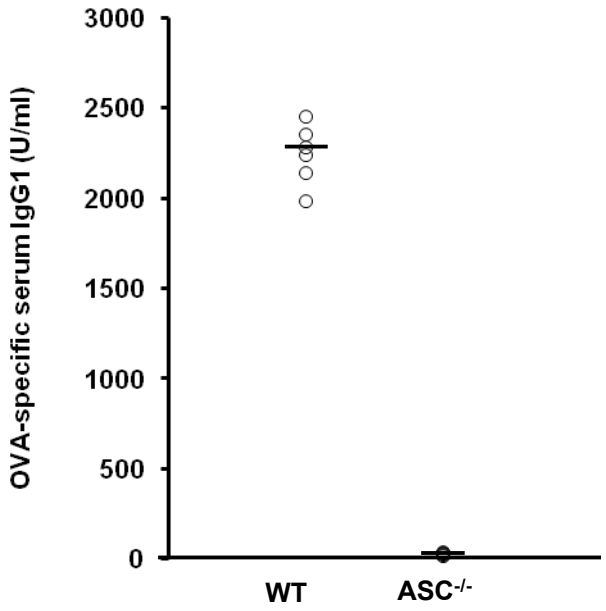
for 24 h and then analyzed by FACS for the expression of MHC class II and CD86 as described in the Methods section. Data are representative of three independent experiments.

Supplementary Figure 5. Expression of heat-killed *Mycobacterium*-induced cell activation markers is normal in $ASC^{-/-}$ dendritic cells. Wild type (WT) and ASC deficient BMDCs were incubated with (**A**) heat-killed *Mycobacterium tuberculosis* (1μg/ml) or PBS (**B**) for 24 h and then analyzed by FACS for the expression of MHCII and CD86 as described in the Materials and Methods. Data are representative of three independent experiments.

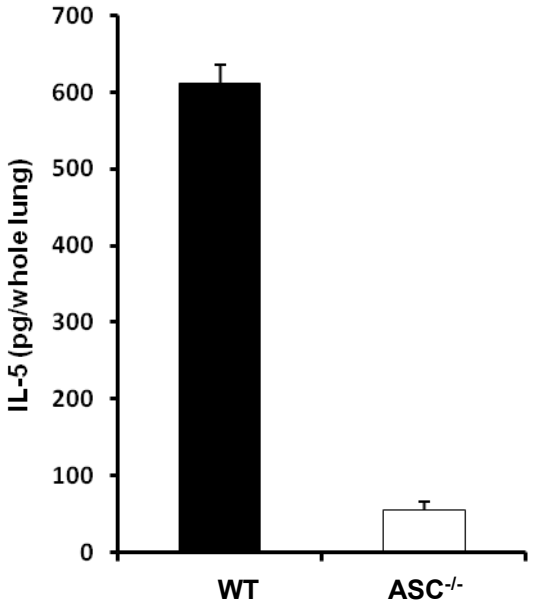


Supplementary figure 1

A

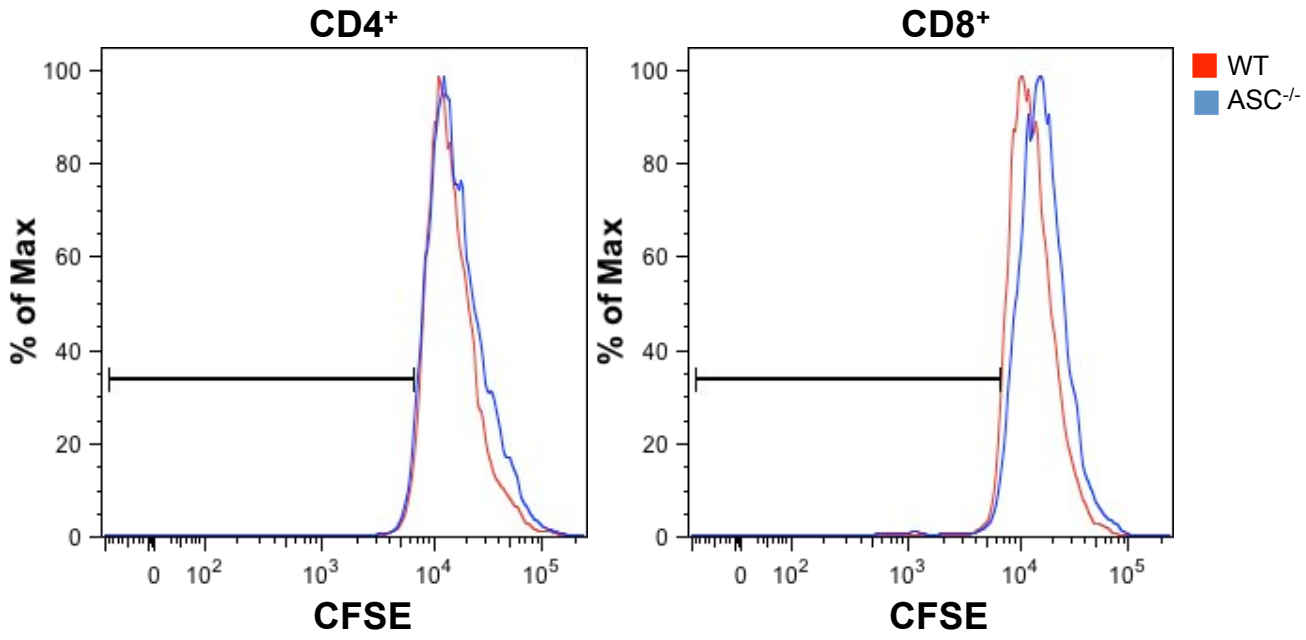


B

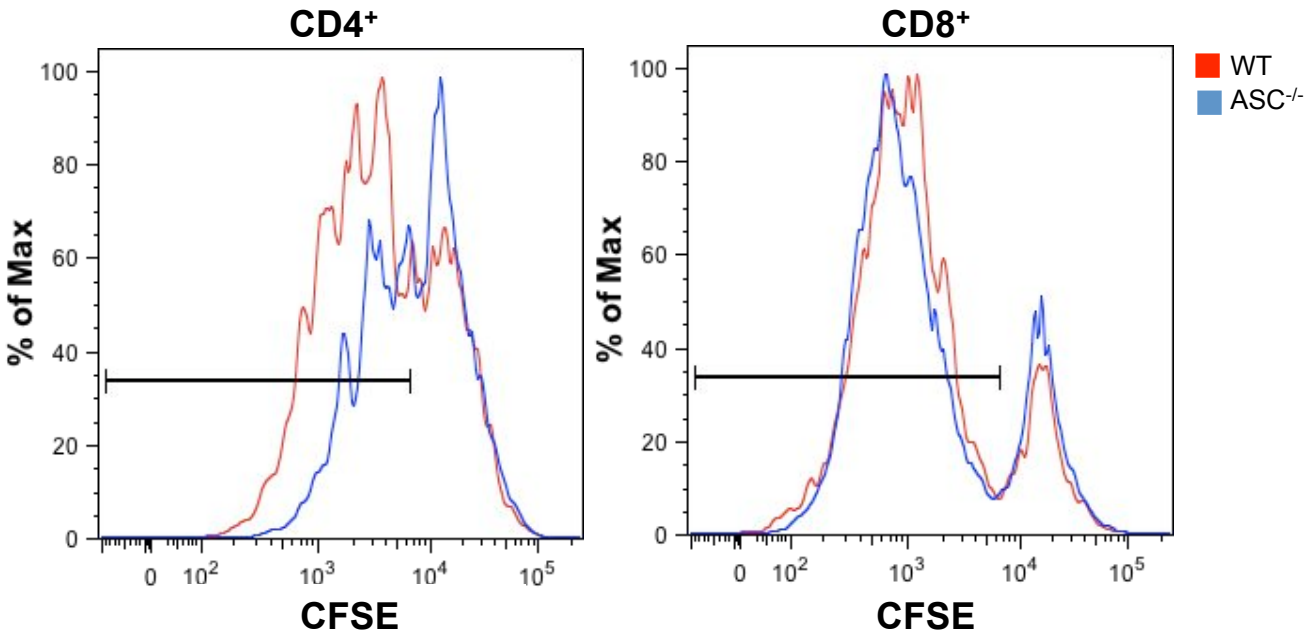


Supplementary figure 2

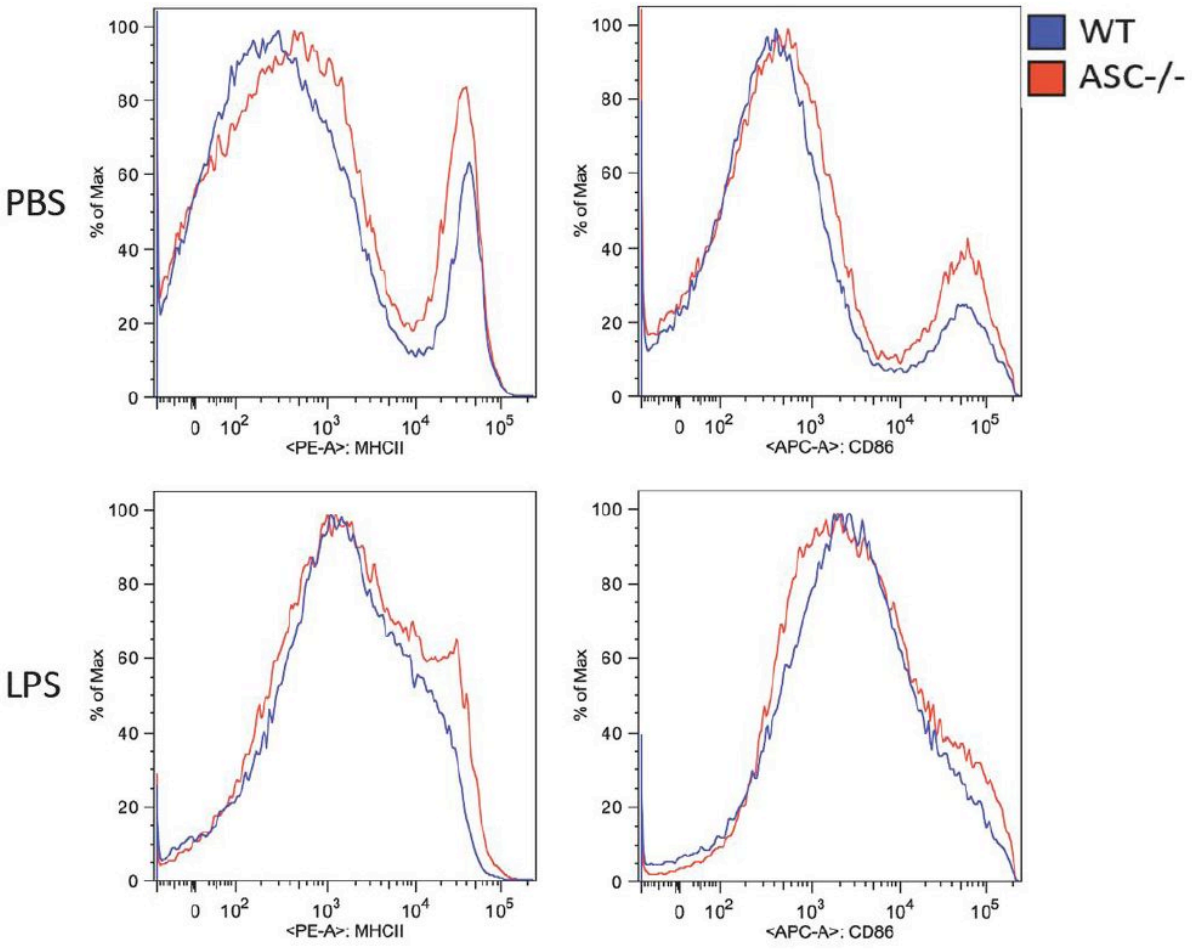
Unstimulated



αCD3 + αCD28



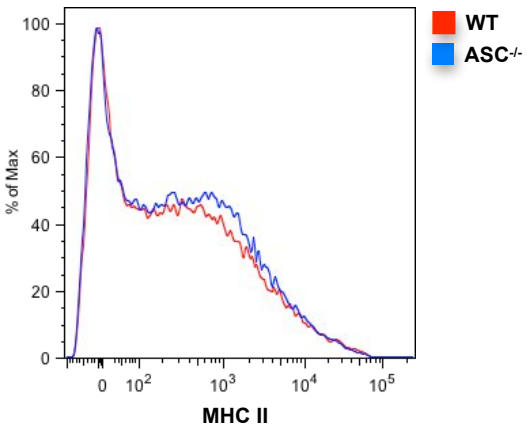
Supplementary figure 3

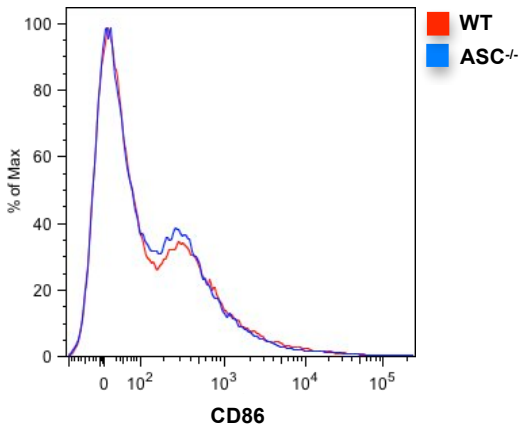


Supplementary figure 4

A

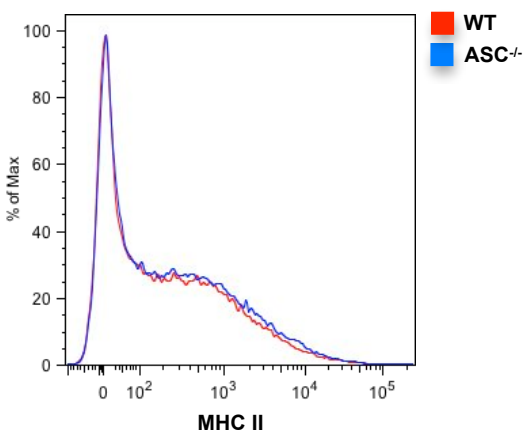
Heat-killed *Mycobacterium tuberculosis* (1µg/ml)

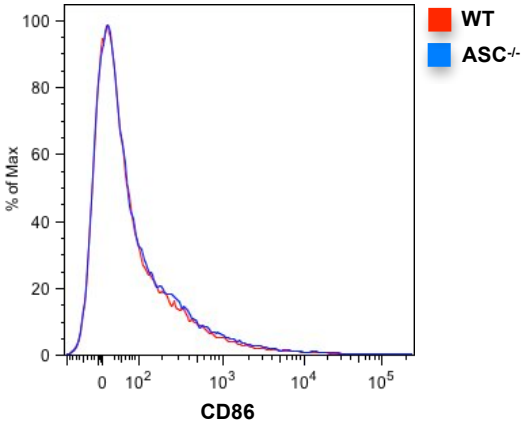




B

PBS





Supplementary figure 5